RAW SEQUENCE LISTING   DATE: 06/18/2001
PATENT APPLICATION: **US/09/855,340**   TIME: 16:12:34

Input Set : **A:\Pto.amc**
Output Set: **N:\CRF3\06182001\I855340.raw**

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 3 <110> APPLICANT: Hosted, Jr., Thomas J.
 4        Horan, Ann C.
 6 <120> TITLE OF INVENTION: Isolation of Micromonospora carbonacea var africana
 7        pMLP1 integrase and use of integrating function for
 8        site-specific integration into Micromonospora
 9        halophitica and Micromonospora carbonacea chromosome
11 <130> FILE REFERENCE: IN01164K
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C--> **13 <140> CURRENT APPLICATION NUMBER: US/09/855,340**
C--> **14 <141> CURRENT FILING DATE: 2001-05-15**
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16 <150> PRIOR APPLICATION NUMBER: 60/204,670
17 <151> PRIOR FILING DATE: 2000-05-17
19 <160> NUMBER OF SEQ ID NOS: 9
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 1179
25 <212> TYPE: DNA
26 <213> ORGANISM: Micromonospora carbonacea
28 <400> SEQUENCE: 1
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31 cgtgcggagc agttgcaggg caacgcgctc atgccgcgcg gcggtcagat taccctcgcc 180
32 gatttcgtgg gggagtggtg gccgagctac gaaaagacgc tgaaaccgac cgccgtgaac 240
33 tcggagggca accggatccg caaccacctc ctgcccatac tcggccatct caccccttgac 300
34 gagctggacg ggcaggtcac ccagcagtgg gtcaacgacc tggaggccgg cgtcggcccg 360
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36 cacggcctgc tgcacacgat ctgcggcgcg gcgatcgcgg cgaaacggat caggctcaac 480
37 ccgtgctctt cgacgatgct gccccggcgc gagccgaaag agatgaagtt cctgagcgac 540
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39 ctggtggcga ccggtctgag gtggggtgag gcgatcggcc tgcgcgccgg ccgggtcgac 660
40 ctgctcgccg cgcggccccg gctgaccgtc gtcgagcagc tccaggagct ggccagcacg 720
41 ggagagctcg tcttccagtc gccgaagacc gcgaagggcc ggcgcacggt cagtttcacc 780
42 acgaaagtcg ctctactgct tacgccactc atcgccggaa agaaaagtga cgaggtcgtg 840
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44 gcgtgcgagg aagccgggct tccgggctta cgcattcacg atctgcggca cactcacgcg 960
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46 tcgatcgcgg tcacggatct gctgtacggg cacctgcgtg aggaggtcga cgagggatc 1080
47 ctcgcggcga tcgaggaggc gatggccggc gtccgggctg aggacctgga ggcggaactc 1140
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52 <211> LENGTH: 426
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54 <213> ORGANISM: Micromonospora carbonacea
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59 gtcggccggt gggaggacgg caagaaccgg cccgacgacg cggacctcgt tgcccgcgtc 180
60 gcccaggtgc tcggcctcga cctcgacgaa gccctcgccg ccgcaggtct gcgccccggc 240
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69 <212> TYPE: DNA
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84 acacgaaggc cccctccact cggaggggc cttcggcgtt cctgagggtt cgcggtcagg 180
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97 ttcccatcag tcacccggca agtggatcta ctccacagca gatcaggccc cctccgaaga 180
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110 acccgtacac gaaggcccc tccactcgga gggggcttc ggcgttcctg agggttcgcg 180
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123 aggtaagacc caggtcaggg ccggttctca ccggcctga cgcattttca ggggcatggt 180
124 gggggcgcta ccggggtgg ggtgtctcac cgcgagccag catctcgatc aggcgatcga 240
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130 <212> TYPE: DNA
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136 gcaagtggat ctactccaca gcagatcagg cccctccga agaggggcc tgatgcgtca 180
137 tagggggacag gtaggggaac tcaaccccccg gctccttgct cgcgtcgggt catgccgtcc 240
138 gcgtacccct ccgcgtacct ggccctctcc cgttcctcga tctcggcggc gagctgatcg 300
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142 <210> SEQ ID NO: 9
143 <211> LENGTH: 260
144 <212> TYPE: DNA
145 <213> ORGANISM: Micromonospora halophytica
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150 accccaggta agacccaggt cagggccggt tctcaccggc cctgacgcat tttcaggggc 180
151 atggtggggg cgctaccggg ggtgggggtgt ctcaccgcga gccagcatct cgatcaggcg 240
152 atcgagccgg cgctgccggg                                             260
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VERIFICATION SUMMARY   DATE: 06/18/2001
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L:13 M:270 C: Current Application Number differs, Replaced Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date